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Form PTO 1289 (Rev. 2-32)				U.S. Department of Commerce Patent and Trademark Office		Atty. Docket No. IMMR-IMD0002E		Serial No. 10/657,144	
Information Disclosure Statement by Applicant						Applicant: David Alexander et al.			
(Use several sheets if necessary)						Filed: September 9, 2003		Group: 3714	
U.S. Patent Documents									
Init.		Document No.	Date	Name	Class	Subclass	Filing Date		
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04/8	B	3,157,853	12/6/1957	J. Hirsch					
04/8	C	3,220,121	11/30/1965	A.E. Cutler					
04/8	D	3,226,846	1/4/1966	W.C. Wood					
04/8	E	3,304,434	2/14/1967	R.A. Koster					
04/8	F	3,497,668	2/24/1970	J. Hirsch					
04/8	G	3,517,446	6/30/1970	P.R. Corlyon et al.					
04/8	H	3,541,541	11/17/1970	P.C. Engelbart					
04/8	I	3,623,064	11/23/1971	Kagan					
04/8	J	3,748,366	7/24/1973	Rader et al.					
04/8	K	3,775,865	12/4/1973	Kowan					
04/8	L	3,902,687	9/2/1975	Hightower					
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04/8	P	4,160,508	7/10/1979	Salisbury, Jr.					
04/8	Q	4,236,325	12/2/1980	Hall et al.					
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04/8	S	4,321,047	3/23/1982	Landis					
04/8	T	4,333,070	6/1/1982	Barnes					
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							Yes	No	
04/8	U	H2-185278	1/12/1989	JP			X		
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04/8	X	Adelstein, "A Virtual Environment System for the Study of Human Arm Tremor", Ph.D. Dissertation, Dept. of Mechanical Engineering, MIT, June 1989, 33 pages.							
04/8	Y	Adelstein et al., "Design and Implementation of a Force Reflecting Manipulandum for Manual Control Research", DSC-Vol. 42, Advances in Robotics ASME, 1992, pp. 1-12.							
04/8	Z	Aukstakalnis, et al., "Silicon Mirage: The Art and Science of Virtual Reality", 1992, pp. 129-180.							
04/8	AA	Baigrie, Stephan A., "Electric Control Loading - A Low Cost, High Performance Alternative", Proceedings of Interservice/Industry Training Systems Conference, November 6-8, 1990, pp. 247-254.							
Examiner <i>afania Horco</i>					Date Considered <i>1/6/05</i>				
Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.									

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U.S. Patent Documents								
Init.		Document No.	Date	Name	Class	Subclass	Filing Date	
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04/8	AE	4,459,113	7/10/1984	Boscaro Gatti et al.				
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04/8	AU	4,804,328	2/14/1989	Barrabee				
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							Yes	No
04/8	AV	H7-24147	7/12/1993	JP			X	
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04/8	BB	Bejczy, "Sensors, Controls, and Man-Machine Interface for Advanced Teleoperation", Science, vol. 208, no. 4450, 1980, pp. 1327-1335.						
Examiner <i>afania Itoica</i>					Date Considered <i>1/6/06</i>			
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							Yes	No
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04/8	BX	2 288 686	10/25/1995	GB			X	
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04/8	CA	Brooks et al., "Hand Controllers for Teleoperation", A State-of-the-Art Technology Survey and Evaluation, JPL Publication 85-11, March 1, 1985, pp. 1-84.						
04/8	CB	Burdea et al., "Distributed Virtual Force Feedback", IEEE International Conference on Robotics and Automation, May 2, 1993, pp. 25-44.						
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<i>clp</i>	CC	5,086,401	2/4/1992	Glassman et al.				
<i>clp</i>	CD	5,099,846	3/31/1992	Hardy				
<i>clp</i>	CE	5,112,228	5/12/1992	Zouras				
<i>clp</i>	CF	5,130,794	7/14/1992	Ritchey				
<i>clp</i>	CG	5,137,458	8/11/1992	Unas et al.				
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<i>clp</i>	CI	5,165,897	11/24/1992	Johnson				
<i>clp</i>	CJ	5,175,459	12/29/1992	Danial et al.				
<i>clp</i>	CK	5,185,561	2/9/1993	Good et al.				
<i>clp</i>	CL	5,186,695	2/16/1993	Mangseth et al.				
<i>clp</i>	CM	5,205,289	4/27/1993	Hardy et al.				
<i>clp</i>	CN	5,212,473	5/18/1993	Louis				
<i>clp</i>	CO	5,220,260	6/15/1993	Schuler				
<i>clp</i>	CP	5,222,499	6/29/1993	Allen et al.				
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<i>clp</i>	CR	5,261,404	11/16/1993	Mick et al.				
<i>clp</i>	CS	5,271,290	12/21/1993	Fischer				
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<i>clp</i>	CU	5,275,174	1/4/1994	Cook				
<i>clp</i>	CV	5,283,970	2/8/1994	Aigher				
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Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)								
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<i>clp</i>	CX	Cyberman Technology Specification, Logic Cyberman SWIFT Supplement to Logitech Mouse Reference and Programming Guide, April 5, 1994, pp. 1-29.						
<i>clp</i>	CY	Calder, "Design of a Force-Feedback Touch-Inducing Actuator for Teleoperator Robot Control", Bachelor of Science Thesis, MIT, May 1993, pp. 1-37.						
<i>clp</i>	CZ	Eberhardt et al., "Inducing Dynamic Haptic Perception by the Hand: System Description and Some Results", DSC-Vol. 56-1, Dynamic Systems and Control, Vol. 1, ASME, 1984, pp. 345-351.						
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c4/y	DB	5,299,810	4/5/1994	Pierce et al.				
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c4/y	DD	5,311,422	5/10/1994	Loflin et al.				
c4/y	DE	5,320,326	6/14/1994	Ju et al.				
c4/y	DF	5,320,537	6/14/1994	Watson				
c4/y	DG	5,320,538	6/14/1994	Baum				
c4/y	DH	5,322,441	6/21/1994	Lewis et al.				
c4/y	DI	5,333,106	7/26/1994	Lanpher et al.				
c4/y	DJ	5,334,027	8/2/1994	Wherlock				
c4/y	DK	5,338,198	8/16/1994	Wu et al.				
c4/y	DL	5,343,871	9/6/1994	Bittman et al.				
c4/y	DM	5,354,202	10/11/1994	Moncrief et al.				
c4/y	DN	5,376,007	12/27/1994	Zirm				
c4/y	DO	5,377,116	12/27/1994	Wayne et al.				
c4/y	DP	5,385,474	1/31/1995	Brindle				
c4/y	DQ	5,389,865	2/14/1995	Jacobus et al.				
c4/y	DR	5,391,081	2/21/1995	Lampotang et al.				
c4/y	DS	5,403,191	4/4/1995	Tuason				
c4/y	DT	5,414,337	5/9/1995	Schuler				
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c4/y	DW	Gotow et al., "Controlled Impedance Test Apparatus for Studying Human Interpretation of Kinesthetic Feedback", Proceedings of the 1989 American Control Conference, June 21-23, 1989, pp. 332-337.						
c4/y	DX	Howe, "A Force-Reflecting Teleoperated Hand System for the Study of Tactile Sensing in Precision Manipulation", IEEE, 1992, pp. 1321-1326.						
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c4p	DY	5,436,622	7/25/1995	Gutman et al.				
c4p	DZ	5,437,607	8/1/1995	Taylor				
c4p	EA	5,438,529	8/1/1995	Rosenbert et al.				
c4p	EB	5,451,924	9/19/1995	Massimino et al.				
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c4p	EE	5,466,213	10/14/1995	Hogan et al.				
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c4p	EG	5,483,254	1/9/1996	Powell				
c4p	EH	5,483,961	1/16/1996	Kelly et al.				
c4p	EI	5,509,810	4/23/1996	Schertz et al.				
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c4p	EK	5,513,992	5/7/1996	Refait				
c4p	EL	5,518,406	5/21/1996	Waters				
c4p	EM	5,531,227	7/2/1996	Schneider				
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c4p	ER	5,575,761	11/19/1996	Hajianpour				
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Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)								
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c4p	EU	Jacobsen et al., "High Performance, Dextrous Telerobotic Manipulator with Force Reflection", Intervention/ROV '91, Conference & Exposition, May 21-23, 1991, pp. 213-218.						
	EV	Johnson, "Shape-Memory Alloy Tactical Feedback Actuator", Armstrong Aerospace Medical Research Laboratory, August 1990, pp. 1-33.						
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c/y	EX	5,589,854	12/31/1996	Tsai				
c/y	EY	5,593,306	1/14/1997	Kohnke				
c/y	EZ	5,609,485	3/11/1997	Bergman et al.				
c/y	FA	5,623,582	4/22/1997	Rosenberg				
c/y	FB	5,629,594	5/13/1997	Jacobus et al.				
c/y	FC	5,666,138	9/9/1997	Culver				
c/y	FD	5,682,886	1/4/1997	Delp et al.				
c/y	FE	5,687,259	11/11/1997	Linford				
c/y	FF	5,690,582	11/25/1997	Ulrich et al.				
c/y	FG	5,691,898	11/25/1997	Rosenberg et al.				
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c/y	FJ	5,721,566	2/24/1998	Rosenberg et al.				
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c/y	FM	5,731,804	3/24/1998	Rosenberg				
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c/y	FP	5,740,802	4/21/1998	Nafis et al.				
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o/y	FV	5,746,753	5/5/1998	Sullivan et al.				
o/y	FW	5,755,577	5/26/1998	Gillio				
o/y	FX	5,766,016	6/16/1998	Sinclair et al.				
o/y	FY	5,767,839	6/16/1998	Rosenberg				
o/y	FZ	5,768,134	6/16/1998	Swaelens et al.				
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o/y	GC	5,772,836	6/30/1998	Ogawa				
o/y	GD	5,785,630	7/28/1998	Bobick et al.				
o/y	GE	5,791,908	8/11/1998	Gillio				
o/y	GF	5,800,177	9/1/1998	Gillio				
o/y	GG	5,800,178	9/1/1998	Gillio				
o/y	GH	5,805,140	9/8/1998	Rosenberg et al.				
o/y	GI	5,807,115	9/15/1998	Hu				
o/y	GJ	5,817,107	10/6/1998	Schaller				
o/y	GK	5,821,920	10/13/1998	Rosenberg et al.				
o/y	GL	5,825,308	10/20/1998	Rosenberg				
o/y	GM	5,825,941	10/20/1998	Linford et al.				
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Information Disclosure Statement by Applicant				Applicant: David Alexander et al.				
(Use several sheets if necessary)				Filed: September 9, 2003		Group: 3714		
U.S. Patent Documents								
Init.		Document No.	Date	Name	Class	Subclass	Filing Date	
off	GT	5,855,583	1/5/1999	Wang et al.				
off	GU	5,873,731	2/23/1999	Prendergast				
off	GV	5,873,732	2/23/1999	Hasson				
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							Translation	
Init.		Document No.	Date	Country	Class	Subclass	Yes	No
Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)								
off	HO	Noll, "Man-Machine Tactile", SID Journal, July/August 1972.						
off	HP	Ouhyoung, et al., "A Low-Cost Force Feedback Joystick and its Use in PC Video Games", IEEE Transactions on Consumer Electronics, vol. 41, no. 3, August 1995.						
off	HQ	Ouh-young, "Force Display in Molecular Docking", Doctoral Dissertation, 1990, pp. 1-369.						
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Examiner <i>Maria Stora</i>					Date Considered <i>1/5/06</i>			
Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.								

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